SONY

4-469-858-**11**(1)

Interchangeable Lens Digital Camera

α 3000

Instruction Manual

E-mount

Preparing the camera

Mastering the basic operation

Using the recording functions

Checking the functions available

Viewing images on a computer

Others

ILCE-3000

English

Owner's Record

The model and serial numbers are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call your Sony dealer regarding this product.

Model No. ILCE-3000

Serial No. _____

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Sony.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Use the nearby wall outlet (wall socket) when using the AC Adaptor. Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free
1-800-822-8837, or visit http://www.call2recycle.org/

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack and lens (If lens supplied)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

For Customers in the U.S.A.

UL is an internationally recognized safety organization.
The UL Mark on the product means it has been UL Listed.

If you have any questions about this product, you may call:
Sony Customer Information Center
1-800-222-SONY (7669)
The number below is for the FCC related matters only.

Regulatory Information

Declaration of Conformity
Trade Name: SONY
Model No.: ILCE-3000
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A.
Telephone No.: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables shorter than 3 meters (9.8 feet).

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste.
On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead.
By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.
For all other batteries, please view the section on how to remove the battery from the product safely.
Hand the battery over to the applicable collection point for the recycling of waste batteries.
For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

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Model name

In this manual, the model name "ILCE-3000K" is described as "ILCE-3000".

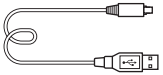
Model name	Lens
ILCE-3000K	DT18 – 55 mm

Checking the supplied items

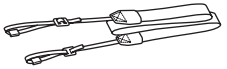
The number in parentheses indicates the quantity.

- Camera (1)
- Rechargeable battery pack NP-FW50 (1)

- Micro USB cable (1)



- E18 – 55 mm zoom lens (1) (attached to the camera)
- Front lens cap (1) (attached to the lens)
- Lens hood (1)
- Shoulder strap (1)

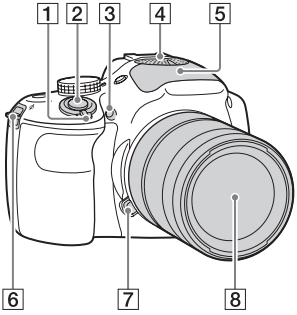


- Instruction Manual (This manual) (1)

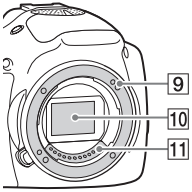
* An AC adaptor is not supplied with this camera.

Identifying parts

See the pages in parentheses for details on operation for the parts.

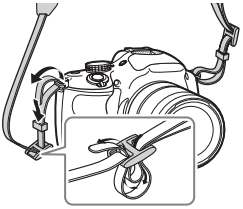


When the lens is removed



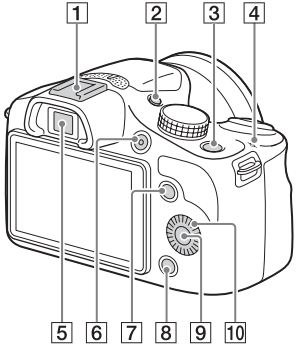
1 ON/OFF (Power) switch (23)
2 Shutter button (26)
3 AF illuminator/Self-timer lamp/ Smile Shutter lamp
4 Microphone[1)]
5 Flash (47)

6 Hook for shoulder strap
Attach the shoulder strap to prevent damage caused by dropping the camera.



7 Lens release button (19)
8 Lens (18)
9 Mount
10 Image sensor[2)]
11 Lens contacts[2)]

1) Do not cover this part during movie recording.
2) Do not touch this part directly.



1 Multi Interface Shoe[1)2)]
2 FINDER/LCD button (22)
- You can switch between the LCD screen and the viewfinder display. (In playback mode, only the LCD screen is available.)

3 ▶ (Playback) button (28)
4 ⊖ Image sensor position mark
5 Viewfinder
6 MOVIE button (27)
7 Soft key A (32)
8 Soft key B (32)
9 Soft key C (32)
10 Control wheel (31)

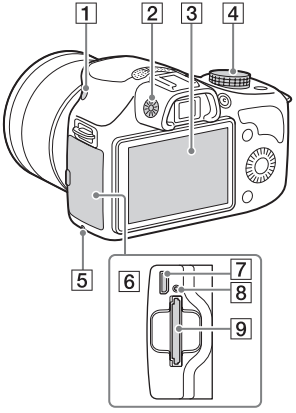
1) For details on compatible accessories of the Multi Interface Shoe, visit the Sony web site in your area, or consult your Sony dealer or local authorized Sony service facility. Accessories for the Accessory Shoe can also be used. Operations with other manufactures' accessories are not guaranteed.

Multi Interface Shoe

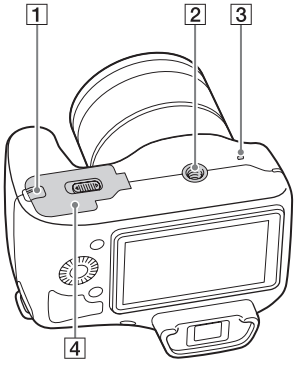
Accessory Shoe

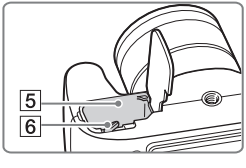
2) Accessories for the Auto-lock Accessory Shoe can also be attached using the Shoe Adaptor (sold separately).

Auto-lock Accessory Shoe

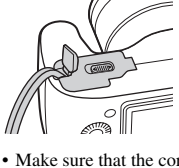


1 ϟ (Flash pop-up) button
2 Diopter-adjustment dial
3 LCD screen
4 Mode dial
5 Access lamp
6 Memory card/terminal cover
7 Multi/Micro USB Terminal
Supports Micro USB compatible device.
8 Charge lamp
9 Memory card insertion slot (20)





1 Connection plate cover
Use this when using an AC-PW20 AC Adaptor (sold separately). Insert the connection plate into the battery compartment, and then pass the cord through the connection plate cover as shown below.



- Make sure that the cord is not pinched when you close the cover.

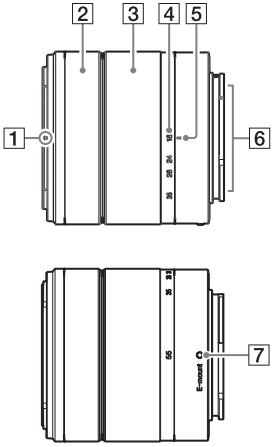
2 Tripod socket hole
- Use a tripod with a screw length of less than 5.5 mm (7/32 inch). You will be unable to firmly secure the camera to tripods using screws longer than 5.5 mm (7/32 inch), and may damage the camera.

3 Speaker
4 Battery cover (13)
5 Battery compartment (13)
6 Lock lever (13, 17)

Lens

See page 85 on the specifications of the lens.

E 18 – 55 mm F3.5-5.6 OSS



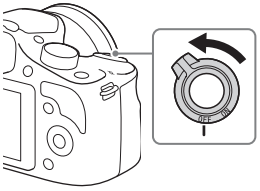
1 Hood index
2 Focusing ring
3 Zooming ring
4 Focal-length scale
5 Focal-length index
6 Lens contacts[1)]
7 Mounting index

1) Do not touch this part directly.

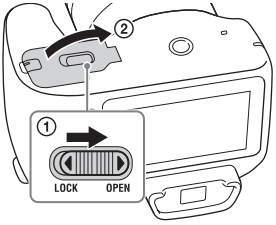
Charging the battery pack

When using the camera for the first time, be sure to charge the NP-FW50 “InfoLITHIUM” battery pack (supplied).
The “InfoLITHIUM” battery pack can be charged even when it has not been fully depleted. The battery pack can also be used when it has not been fully charged.
The charged battery pack is discharged little by little, even when you do not use it. To avoid missing an opportunity to shoot, charge the battery pack again before you shoot.

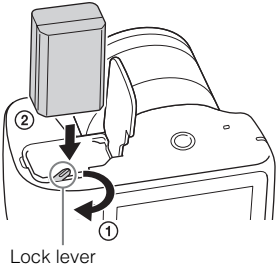
1 Set the power switch to OFF.



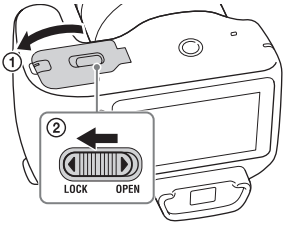
2 Open the cover by sliding the lever.



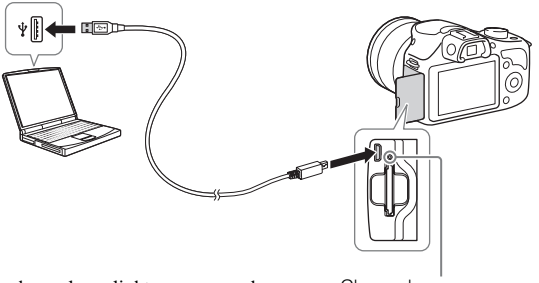
3 Insert the battery pack completely, using the tip of the battery to press the lock lever.



4 Close the cover.



5 Connect the camera to a computer, using the micro USB cable (supplied).



The charge lamp lights orange, and charging starts.

- Set the power switch to OFF while charging the battery. If the power switch is set to ON, the camera cannot charge the battery.
- When the charge lamp flashes, remove and re-insert the battery pack.

Charge lamp
Lit: Charging
Off: Charging finished
Flashing: Charging error or charging temporarily stopped because the temperature is outside the recommended range.

Notes

- If the charge lamp on the camera flashes while you are charging a battery pack, this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10 °C and 30 °C (50 ºF and 86 ºF).
- If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not leave the camera connected to a computer for an extended period of time.
- Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. That may cause the camera to malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera from the computer.
- We do not guarantee operation with all computers. No guarantees are made for charging using a custom-built computer, a modified computer, or charging via a USB hub. You may not be able to operate the camera properly, depending on the types of USB devices you are using at the same time.
- The charge lamp may flash quickly when the battery pack is used for the first time, or the battery pack has not been used for a long time. In such cases, remove the battery pack and re-insert it, and then charge the battery pack.
- Do not try to charge the battery pack again right after it has been charged, or when it has not been used after being charged. Doing so will affect the performance of the battery pack.
- Be sure to use only genuine Sony brand battery packs, micro USB cable (supplied) and AC Adaptor (sold separately).

Charging time

The charging time is approximately 290 minutes.

- You can charge the battery pack more quickly using the AC Adaptor AC-UD10 (sold separately) or AC-UD11 (sold separately).
- The AC Adaptor AC-UD11 (sold separately) may not be available in some countries/regions.

Notes

- The above charging time applies when charging a fully depleted battery pack (supplied) at a temperature of 25 °C (77 °F). Charging time may take longer depending on conditions of use and circumstances.

Checking the remaining battery level

Check the level with the following indicators and percent figures displayed on the LCD screen.

Battery level		"Battery exhausted."
	High → Low	You cannot shoot any more image.

Notes

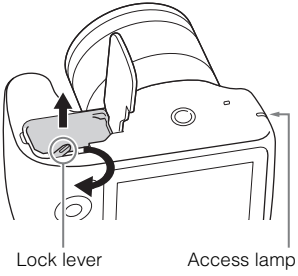
- In some circumstances, the displayed battery level may differ from the actual battery level.

What is an "InfoLITHIUM" battery pack?

An "InfoLITHIUM" battery pack is a lithium-ion battery pack that has functions for exchanging information related to operating conditions with your camera. Using the "InfoLITHIUM" battery pack, the remaining battery time in percent figures is displayed according to the operating conditions of your camera.

Removing the battery pack

Turn off the camera, make sure that the access lamp is not lit, slide the lock lever in the direction of the arrow, and pull out the battery pack. Be careful not to drop the battery pack.



Notes

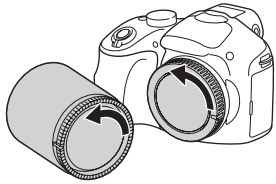
- When the access lamp is lit, do not remove the battery pack. The data may be corrupted.

Attaching/removing the lens

Set the power switch of the camera to OFF before you attach or remove the lens.

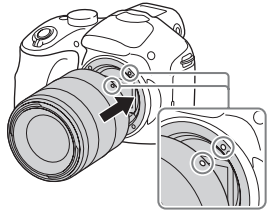
1 If the cap or the packaging lid is attached, remove it from the camera or the lens.

- Quickly change the lens somewhere away from dusty locations so as to prevent dust or debris from entering the camera.



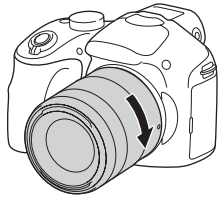
2 Mount the lens by aligning the white index marks on the lens and the camera.

- Hold the camera's face downward to prevent the dust from entering into the camera.



3 While pushing the lens lightly toward the camera, turn the lens clockwise until it clicks into the locked position.

- Be sure to put the lens on straight.

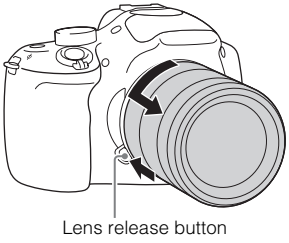


Notes

- When attaching a lens, do not press the lens release button.
- Do not use excessive force when attaching a lens.
- The Mount Adaptor (sold separately) is required to use an A-mount lens (sold separately). For details, refer to the operating manual supplied with the Mount Adaptor.
- When using a lens equipped with a tripod socket, attach the socket on the lens side to the tripod to maintain balance.

Removing the lens

1 Press the lens release button all the way in and turn the lens counterclockwise until it stops.

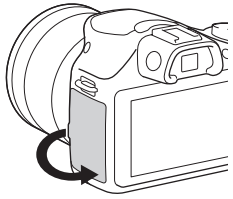


Notes

- If dust or debris gets inside the camera while you are changing the lens and adheres to the surface of the image sensor (the part that converts the light source to a digital signal), it may appear as dark spots on the image, depending on the shooting environment. The image sensor has an anti-dust coating to prevent dust from adhering to the image sensor. However, attach or remove the lens quickly, away from dusty locations.
- Do not leave the camera with the lens removed.
- When you want to use body caps or rear lens caps, please purchase ALC-B1EM (Body cap) or ALC-R1EM (Rear lens cap) (sold separately).
- When you use a lens with a power zoom, set the power switch of the camera to OFF and confirm that the lens is completely retracted before switching lenses. If the lens has not retracted, do not press the lens in by force.
- When attaching the camera to a tripod, be sure not to touch the zooming/focusing ring.

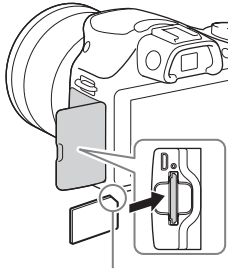
Inserting a memory card (sold separately)

1 Open the cover.



2 Insert a memory card.

- Insert the memory card until it clicks as illustrated.



Check on the direction of the notched corner.

3 Close the cover.

Memory cards that you can use

You can use following types of memory cards with this camera. However, proper operation cannot be guaranteed for all types of the memory cards.

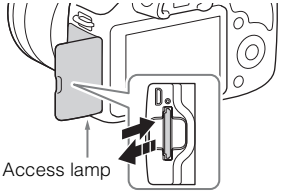
Usable memory card	Still image	Movie	Term in this manual
“Memory Stick PRO Duo” media	✓	✓ (Mark2)	“Memory Stick PRO Duo” media
“Memory Stick PRO-HG Duo” media	✓	✓	
“Memory Stick XC-HG Duo” media	✓	✓	“Memory Stick XC Duo” media
SD memory card	✓	✓ (Class 4 or more)	SD card
SDHC memory card	✓	✓ (Class 4 or more)	
SDXC memory card	✓	✓ (Class 4 or more)	

Notes

- Images recorded on a “Memory Stick XC-HG Duo” media or an SDXC memory card cannot be imported to or played on computers or AV devices that are not compatible with exFAT. Make sure that the device is compatible with exFAT before connecting it to the camera. If you connect your camera to an incompatible device, you may be prompted to format the card. Do not format the card in response to this prompt, as doing so will erase all data on the card. (exFAT is the file system used on “Memory Stick XC-HG Duo” media or SDXC memory cards.)

Removing the memory card

Open the cover, make sure that the access lamp is not lit, and then push the memory card in once.



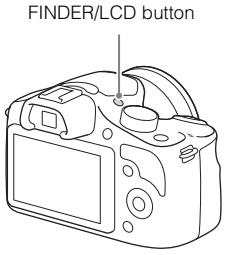
Notes

- When the access lamp is lit, do not remove the memory card. The data may be corrupted.

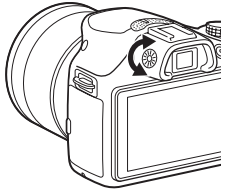
Adjusting the viewfinder (diopter adjustment)

Adjust the viewfinder so that you can see the screen display clearly.

1 Press the FINDER/LCD button to switch the screen display to the viewfinder.



2 Turn the diopter-adjustment dial.



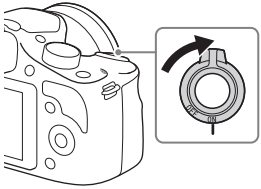
Turning on the camera and setting the clock

When you turn on the camera for the first time, the screen to set date and time appears.

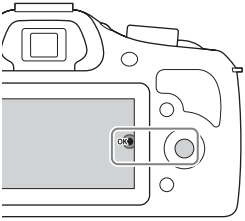
1 Set the power switch to ON to turn on the camera.

The screen to set date and time appears.

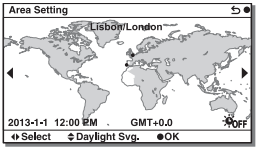
- To turn off the camera, set the power switch to OFF.



2 Press the center of the control wheel.



3 Select your area by pressing the left or right of the control wheel and press the center.

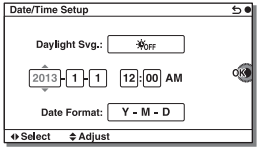


4 Press the left or right of the control wheel to select each item, and press the top or bottom, or turn it to select the numeric value.

Daylight Svg.: Turns on or off the daylight saving time setting.

Date Format: Selects the format to display date.

- Midnight is indicated as 12:00 AM, and noon as 12:00 PM.



5 Repeat step 4 to set other items, and then press the center of the control wheel.

Notes

- You cannot superimpose the date on images on this camera. Using "PlayMemories Home," you can save or print images with date. Refer to "PlayMemories Home Help Guide" for more details (page 63).

Resetting the date and time/Checking the current clock setting

The screen for date and time setup is displayed only when the power is turned on for the first time. After that, set the date and time from the MENU.
Select MENU → [Setup] → [Date/Time Setup].

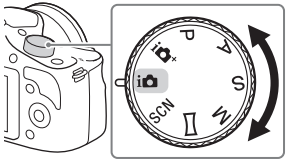
Maintaining the date and time setting

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not. For details, see page 80.

Shooting still images

In iA (Intelligent Auto) mode, the camera analyzes the subject, and allows you to shoot with appropriate settings.

1 Set the mode dial to iA (Intelligent Auto).



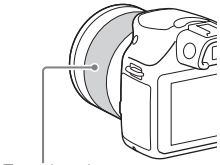
2 Point the camera to the subject.

When the camera recognizes the scene, the Scene Recognition icon and guide appear on the LCD screen: (Night Scene), (Tripod Night Scene), (Night Portrait), (Backlight), (Backlight Portrait), (Portrait), (Landscape), (Macro), (Spotlight), (Low Brightness), or (Baby).

Scene Recognition icon and guide

3 When you use a zoom lens, adjust the zoom scale by rotating the zooming ring.

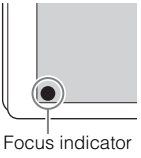
- Optical zooming is not available with a fixed focus lens.



Zooming ring

4 Press the shutter button halfway down to focus.

When the focus is confirmed, a beep sounds and ● indicator lights up.



5 Press the shutter button fully down.

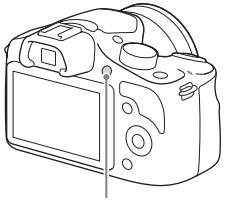
When shooting faces, close-up (macro) subjects, or subjects tracked by [Tracking Focus], the camera analyzes the scene and automatically trims the captured image into a suitable composition. Both the original and the trimmed images are saved.

Recording movies

1 Point the camera to the subject.

2 Press the MOVIE button to start recording.

- Focus and brightness are adjusted automatically.
- You can focus quickly by pressing the shutter button down halfway while recording.



3 Press the MOVIE button again to stop recording.

Notes

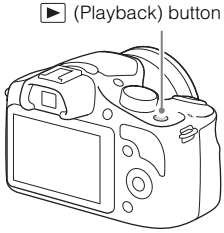
- The sound of the camera and the lens in operation might be recorded while recording a movie.
- When you use a lens with a power zoom and find the sound of the zooming ring during recording distracting, it is recommended that you use the zooming lever. When you move the zooming lever, place your finger lightly on the lever and operate so that you do not flip the lever.
- You can disable the sound recording by selecting MENU → [Setup] → [Movie Audio Rec] → [Off] (page 55).
- The continuous recording time of a movie depends on the ambient temperature or the condition of the camera.
- When you record a movie continuously for a long time, the temperature of the camera tends to rise, and you may feel that the camera is warm. However, this is not a malfunction. Also, “Internal temp. high. Allow it to cool.” may appear. In such cases, turn the camera off and wait until the camera is ready to shoot again.

Playing back images

1 Press the ▶ (Playback) button.

The last recorded image is displayed on the LCD screen.

- Press the center of the control wheel to enlarge the displayed image.



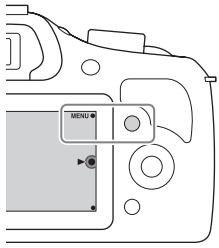
Selecting the image

Turn the control wheel and select the image.
When playing back images as an image index, a single-image screen can be displayed by turning the control wheel to select an image and pressing the center of the control wheel.

Playing back movies

1 Select MENU → [Playback] → [Still/Movie Select] → [Folder View(MP4)] or [AVCHD View].

- To return to still image playback, select [Folder View(Still)].



2 Turn the control wheel to select the desired movie, and press the center.

During movie playback	Control wheel operation
Pause/resume	Press the center.
Fast-forward	Press the right, or turn the control wheel clockwise.
Fast-rewind	Press the left, or turn the control wheel counterclockwise.
Forward slow playback	Turn clockwise during pause.
Reverse slow playback*	Turn counterclockwise during pause.
Adjust sound volume	Press the bottom, then press top/bottom.

* The movie is played back frame-by-frame.

Playing back images as an image index

When playing back images, six images can be displayed on the screen by pressing (Image Index) on the control wheel.

- You can switch the screen to a 12-image index by selecting MENU → [Playback] → [Image Index].

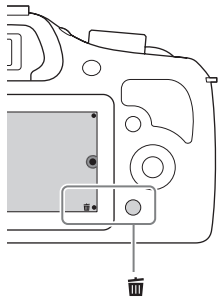
Displaying a desired folder

To select a desired folder, select the bar on the left of the image index screen, and then press the top/bottom parts of the control wheel. You can switch between still image playback and movie playback by pressing the center of the control wheel.

Deleting images

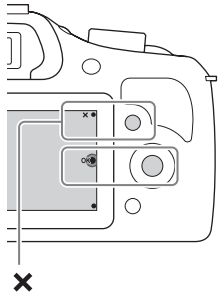
You can delete the image that is currently displayed.

1 Press 🗑 (Delete).



2 Press the center of the control wheel.

- Select ✕ to quit the operation.



Deleting several images

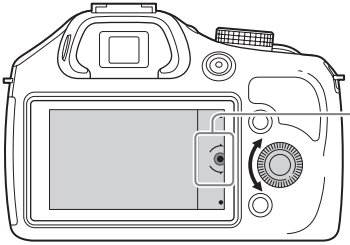
Select MENU → [Playback] → [Delete] to select and delete several images at the same time.

Operating the camera

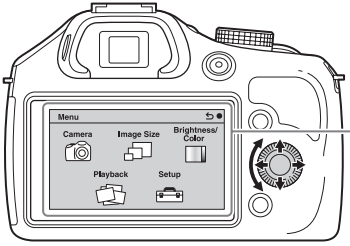
The control wheel and soft keys allow you to use various functions of the camera.

Control wheel

When shooting, DISP (Display Contents), (Exposure Comp.), (Drive Mode) and ISO (ISO) functions are assigned to the control wheel. When playing back, DISP (Display Contents) and (Image Index) functions are assigned to the control wheel.
When you turn or press the top/bottom/left/right parts of the control wheel following the on-screen display, you can select setting items. Your selection is determined when you press the center of the control wheel.



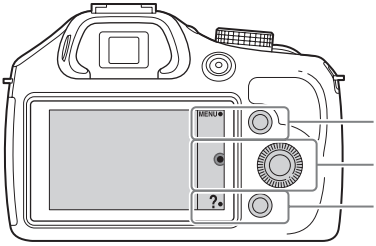
The arrow means you can turn the control wheel.



When options are displayed on the screen, you can browse through them by turning or pressing the top/bottom/ left/right parts of the control wheel. Press the center to make your choice.

Soft keys

The soft keys have different roles, depending on the purpose.
The assigned role (function) of each soft key is shown on the screen.
To use the function shown at the upper right corner of the screen, press soft key A. To use the function shown at the lower right corner of the screen, press soft key B. To use the function shown at the center, press the center of the control wheel (soft key C).
In this manual, the soft keys are indicated by the icon or the function shown on the screen.



In this case, soft key A works as the MENU (Menu) button, and soft key B as the ? (Shoot. Tips) button.

Using the guide function of the camera

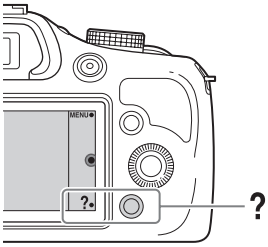
The camera provides various “Help Guides” which explain the functions, and “Shooting tips” which introduce tips for better shooting. Use these guides to make better use of the camera.

Help Guides

The camera displays the Help Guides to explain the selected function, when you change the setting, etc.
You can hide the Help Guides by selecting MENU → [Setup] → [Help Guide Display] → [Off].

Shooting tips

The camera displays shooting tips based on the shooting mode selected.
① When ? is displayed at the right bottom corner of the screen, press the button at the bottom right.
A list of shooting tips based on the current scene appears automatically.



② Select the desired shooting tip by pressing the top or bottom of the control wheel, then press the center.
- Press the left or right of the control wheel to change the item.
- Turn the control wheel to scroll the text up and down.

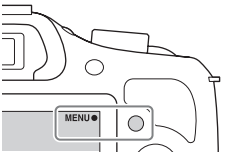
To view all shooting tips

You can view a list of all shooting tips from the menu.
MENU → [Camera] → [Shooting Tip List].

Zooming

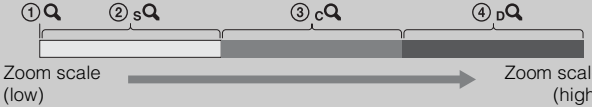
With the [Zoom] feature of the camera, you can increase the magnification to a scale greater than that of the optical zoom scale of the lens.
When using a lens with a power zoom, use the optical zoom of the lens and then the camera shifts automatically to the [Zoom] feature of the camera.
When using a lens that is not equipped with a power zoom, follow the instruction below after magnifying using the optical zoom.

1 Select MENU → [Camera] → [Zoom] → desired value.



The [Zoom] features available with this camera

The [Zoom] feature of the camera provides higher magnification by combining various zoom features. The icon displayed on the LCD screen changes as follows, according to the selected zoom feature.

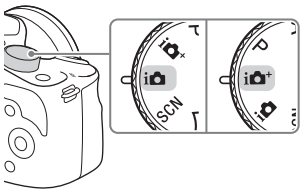


① Q : The [Zoom] feature of the camera is not used. (×1.0 is indicated.)
② SQ Smart Zoom: You can magnify images by trimming them partially. (Available only when [Image Size] is set to [M] or [S].)
③ CQ Clear Image Zoom: You can magnify images using high-resolution image processing.
④ DQ Digital Zoom: You can magnify images using image processing. (The default setting is [Off].)

Setting the function using [Photo Creativity]

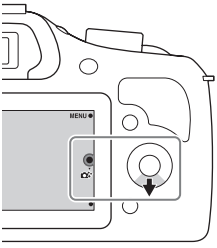
You can operate the camera intuitively using [Photo Creativity], since the [Photo Creativity] screen is designed for more intuitive operations than a normal screen. You can shoot a subject with easy operations and obtain creative photos easily.

1 Set the mode dial to iA (Intelligent Auto) or iA+ (Superior Auto).



2 Press the bottom of the control wheel.

The [Photo Creativity] screen appears.



3 Select the item you want to adjust by pressing the left/right of the control wheel.

(Bkground Defocus): Adjusts the blurring of the background.

(Brightness): Adjusts the brightness.

(Color): Adjusts the color.

(Vividness): Adjusts the vividness.

(Picture Effect): Selects the desired effect and shoots more impressive and artistic images.

4 Select the desired setting by turning the control wheel.

• Repeat Steps 3 and 4 to combine the various functions.

Notes

- [Photo Creativity] is only available when an E-mount lens is mounted.
- [Photo Creativity] is only available when [Intelligent Auto] or [Superior Auto] is selected.

Defocusing the background easily (Background Defocus Control)

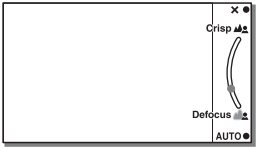
1 Select (Bkground Defocus) (page 35).

2 Defocus the background by turning the control wheel.

: You can focus on both the subject and the background.

: You can defocus the background.

- Select AUTO to restore the original status.
- You can record a movie with a value adjusted with the defocusing effect.



Notes

- The defocusing effect may not be noticeable, depending on the lens or the distance between the subject and the background.

Tips for a better result of Background Defocus

- Move closer to the subject.
- Lengthen the distance between the subject and the background.

Picture Effect

1 Select (Picture Effect) (page 35).

2 Select the desired effect by turning the control wheel.

OFF **(Off):** Disables the [Picture Effect] function.

Toy Camera **(Toy Camera):** Creates the look of a Toy Camera photo with shaded corners and pronounced colors.

Pop **(Pop Color):** Creates a vivid look by emphasizing color tones.

Pos **(Posterization: Color):** Creates a high contrast, abstract look by heavily emphasizing primary colors.

Pos **(Posterization: B/W):** Creates a high contrast, abstract look in black and white.

Retro **(Retro Photo):** Creates the look of an aged photo with sepia color tones and faded contrast.

Soft Key **(Soft High-key):** Creates an image with the indicated atmosphere: bright, transparent, ethereal, tender, soft.

Part Color **(Partial Color):** Creates an image which retains the specified color, but converts others to black and white.

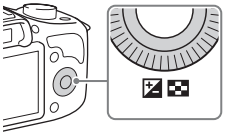
HiCon Mono **(High Contrast Mono.):** Creates an image with high contrast in black and white.

- You can use more picture effects. Select MENU → [Brightness/Color] → [Picture Effect].

Adjusting the brightness of still images (Exposure compensation)

You can adjust the exposure in 1/3 EV steps in a range of –3.0 EV to +3.0 EV.

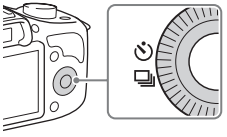
1 Press ⊠ (Exposure Comp.) on the control wheel.
- When you select [Intelligent Auto] or [Superior Auto], the [Photo Creativity] screen appears.



2 Turn the control wheel to select the desired value, and press the center.
- When the image is too bright, set [Exposure Comp.] toward –.
- When the image is too dark, set [Exposure Comp.] toward +.

Using the self-timer

1 Press ⏲ / ⧉ (Drive Mode) on the control wheel.



2 Turn the control wheel to select ⏲ (Self-timer).

3 Press OPTION, and then turn the control wheel to select the desired mode and press the center.

⏲10 **(Self-timer: 10 Sec):** Sets the 10-second delay self-timer. Use this when you want to include yourself in the picture.
When you press the shutter button, the self-timer lamp flashes and beeps until the shutter operates.

⏲2 **(Self-timer: 2 Sec):** Sets the 2-second delay self-timer. You can prevent blur caused by camera-shake that occurs when the shutter button is pressed.
- To cancel the timer, press ⏲ / ⧉ (Drive Mode) again.

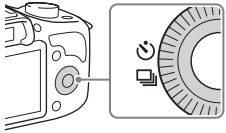
Shooting continuously using the self-timer

Select (Self-timer(Cont)) from / (Drive Mode). The camera starts continuous recording after 10 seconds.

Shooting still images continuously

The camera records images continuously as long as you continue to press the shutter button.

1 Press / (Drive Mode) on the control wheel.



2 Turn the control wheel to select (Cont. Shooting), and press the center.

Shooting continuously at a higher speed

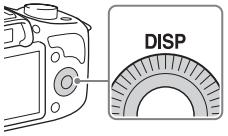
Select (Spd Priority Cont.) from / (Drive Mode) to shoot continuously at higher speed (max. approximately 3.5 images per second*1*2).

*1 When [Quality] is set to [Fine].
The maximum recordable number may differ depending on the measuring condition.

*2 When an E 18-55 mm F3.5-5.6 OSS lens (supplied) is attached to the ILCE-3000. The camera maintains this continuous shooting speed until approximately the 13th recorded image.

Changing the screen display (DISP)

1 Press DISP (Display Contents) on the control wheel.



2 Press DISP repeatedly to select the desired mode.

During shooting

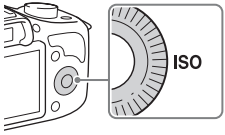
Graphic Display: Shows basic shooting information. Graphically shows the shutter speed and aperture value, except for when [Shoot Mode] is set to [Sweep Panorama].
Display All Info.: Shows recording information.
Big Font Size Disp.: Shows only major items in a larger size.
No Disp. Info.: Does not show recording information.
Histogram: Displays the luminance distribution graphically.

During playback

Display Info.: Shows recording information.
Histogram: Displays the luminance distribution graphically, in addition to recording information.
No Disp. Info.: Does not show recording information.

Changing the ISO sensitivity

1 Press ISO (ISO) on the control wheel.



2 Turn the control wheel to select the desired setting value, and press the center of the control wheel.

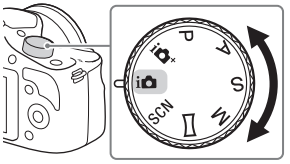
ISO AUTO: The camera sets the ISO sensitivity automatically. (ISO 100-ISO 3200)
ISO 100-ISO 16000: When shooting moving subjects or in dark locations, you can decrease subject blur by increasing the ISO sensitivity.

Notes

- In modes that fix the shutter speed, you cannot decrease subject blur even if you increase the ISO sensitivity.

Shooting with various shooting modes

1 Select the shooting mode by turning the mode dial.



(Intelligent Auto): The camera evaluates the subject and makes the proper settings.

SCN (Scene Selection): Shoots with preset settings according to the subject or condition.

(Sweep Panorama): Shoots with panoramic size.

M (Manual Exposure): Adjusts the aperture and shutter speed.

S (Shutter Priority): Adjusts the shutter speed to express the movement of the subject.

A (Aperture Priority): Shoots by adjusting aperture and changing the range in focus, or defocuses the background.

P (Program Auto): Automatic shooting that allows you to customize settings, except for the exposure (shutter speed and aperture).

(Superior Auto): Shoots images with a wider range of shooting functions than those of [Intelligent Auto] shooting. Recognizes and evaluates the shooting conditions automatically, performs [Auto HDR], and chooses the best image.

Scene Selection

1 Select **SCN** (Scene Selection) (page 42).

2 Turn the control wheel to select the desired mode, and press the center.

(Portrait): Blurs away backgrounds and sharpens the subject. Accentuate skin tones softly.

(Landscape): Shoots the entire range of scenery in sharp focus with vivid colors.

(Macro): Shoots close-ups of the subjects such as flowers, insects, food, or small items.

(Sports Action): Shoots a moving subject at a fast shutter speed so that the subject looks as if it is standing still. The camera shoots images continuously while the shutter button is pressed.

(Sunset): Shoots the red of the sunset beautifully.

(Night Portrait): Shoots portraits in night scenes. Pop up the flash to use this mode.

(Night Scene): Shoots night scenes without losing the dark atmosphere.

(Hand-held Twilight): Shoots night scenes with less noise and blur without using a tripod. A burst of shots are taken, and image processing is applied to reduce subject blur, camera-shake, and noise.

(Anti Motion Blur): Allows you to shoot indoor shots without using the flash and reduces subject blur. The camera shoots burst images and combines them to create the image, reducing subject blur and noise.

Sweep Panorama

While you pan the camera, the camera shoots several images and composes them into one panoramic image.

1 Set the shooting mode to (Sweep Panorama) (page 42).

2 Point the camera at the subject for which you want to set the brightness and focus, and then press the shutter button halfway down.

This part will not be taken.

3 Keep the shutter button pressed halfway down and point the camera at the edge of the subject, and then press the shutter button fully down.

4 Pan the camera to the end, following the guidance on the LCD screen.

Guidance bar

Notes

- The camera shoots continuously during [Sweep Panorama] recording, and the shutter continues to click until shooting is finished.

Playing back scrolling panoramic images

You can scroll panoramic images from the beginning to the end by pressing the center of the control wheel while panoramic images are being displayed. Press the center of the control wheel again to pause.

This indicator shows the displayed area of the whole panoramic image.

- Panoramic images shot with other cameras may not be displayed or scrolled correctly.

Shutter Priority

You can express the movement of a moving subject in various ways by adjusting the shutter speed, for example, at the instant of the movement with high speed shutter, or as a trailing image with low speed shutter.

1 Select **S** (Shutter Priority) (page 42).

2 Turn the control wheel to select the desired value.

Shutter speed

When a faster shutter speed is used, a moving subject such as a running person, cars, and sea spray appears as if they are stopped.

When a slower shutter speed is used, a trailing image of the movement of the subject is captured to make more natural and dynamic image.

Aperture Priority

You can shoot by adjusting the aperture and changing the focus range, or background defocusing.

1 Select **A** (Aperture Priority) (page 42).

2 Turn the control wheel to select the desired value.
- You can record a movie with a value adjusted with [Aperture Priority].

Program Auto/Superior Auto

In [Superior Auto] mode, the camera shoots with higher quality than [Intelligent Auto] mode. The camera performs composite shooting as necessary. Also, the camera automatically selects an optimal image from the burst images and records it, depending on the scene.
In [Program Auto] mode, you can shoot after adjusting various functions, such as white balance, ISO, etc.

1 Select **P** (Program Auto) or iA+ (Superior Auto) (page 42).

2 Press the shutter button.

Shooting mode	Your purpose
iA (Intelligent Auto)	• Select this mode to automatically easily recognize the scene and shoot continuous images.
P (Program Auto)	• Select this mode to shoot with various functions other than the exposure (shutter speed and aperture) adjusted.
iA+ (Superior Auto)	• Select this mode to automatically shoot scenes under difficult circumstances, such as when it is dark or the subject is back-lit. • Select this mode to shoot a higher quality image than that offered by [Intelligent Auto].

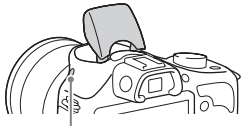
Notes

- In [Superior Auto] mode, the recording process takes longer, since the camera makes a composite image. The camera saves one image.

Selecting the flash mode

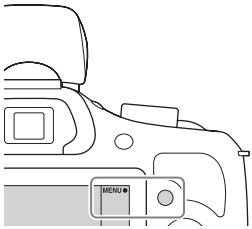
1 When you want to fire the flash, press the ϟ (flash pop-up) button to pop up the flash.

- When you do not intend to use the flash, push it back in place with your finger.



ϟ (Flash pop-up) button

2 Select MENU → [Camera] → [Flash Mode].



3 Turn the control wheel to select the desired mode, and press the center.

(Flash Off): Does not fire even if the flash is raised.

AUTO **(Autoflash):** Fires in dark environments or when shooting towards bright light.

(Fill-flash): Fires every time you trigger the shutter.

SLOW **(Slow Sync.):** Fires every time you trigger the shutter. Slow sync shooting allows you to shoot a clear image of both the subject and the background.

REAR **(Rear Sync.):** Fires right before the exposure is completed every time you trigger the shutter. A trailing image of the movement of the subject is captured to make more natural image.

- The selectable items of the flash mode depends on the shooting mode (page 59).

Notes

- When the camera is charging the flash, ϟ● blinks on the LCD screen. You cannot press the shutter button when this icon is blinking.

The flash range (approx.)

The range of the flash depends on the ISO sensitivity and aperture value.

	F2.8	F3.5	F5.6
ISO 100	1 m – 1.5 m (3.3 feet – 4.9 feet)	1 m – 1.2 m (3.3 feet – 3.9 feet)	–
ISO 3200	4 m – 8.5 m (13.3 feet – 27.8 feet)	3.2 m – 6.8 m (10.6 feet – 22.3 feet)	2 m – 4.2 m (6.6 feet – 13.9 feet)

Selecting the image size/record setting

The image size determines the size of the image file that is recorded when you take an image. The larger the image size, the more detail will be reproduced when the image is printed on large format paper. The smaller the image size, the more images can be recorded.
In the case of movies, the larger the bit-rate, the higher the image quality.

1 Select MENU → [Image Size] → [Image Size].
For movie recording, select MENU → [Image Size] → [Record Setting].

2 Select the desired mode.

Movie

[File Format]: [AVCHD]		Bit-rate	Recording
	60i 24M(FX)* 50i 24M(FX)**	Maximum 24 Mbps	Records high image quality movies of 1920 × 1080 (60i/50i).
✓	60i 17M(FH)* 50i 17M(FH)**	Average 17 Mbps	Records standard image quality movies of 1920 × 1080 (60i/50i).
	24p 24M(FX)* 25p 24M(FX)**	Maximum 24 Mbps	Records high image quality movies of 1920 × 1080 (24p/25p). This produces a cinema-like atmosphere.
	24p 17M(FH)* 25p 17M(FH)**	Average 17 Mbps	Records standard image quality movies of 1920 × 1080 (24p/25p). This produces a cinema-like atmosphere.
[File Format]: [MP4]		Bit-rate	Recording
✓	1440×1080 12M	Average 12 Mbps	Records movies of 1440×1080.
	VGA 3M	Average 3 Mbps	Records movies of VGA size.

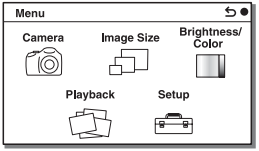
* 1080 60i-compatible device
** 1080 50i-compatible device

Notes

- When you print still images recorded with 16:9 aspect ratio, and panoramic images, both edges may be cut off.

Menu list

When you press MENU, the menu items [Camera], [Image Size], [Brightness/ Color], [Playback] and [Setup] appear on the screen.
You can set various functions in each item. Items that cannot be set in the context are displayed in gray.



Camera

Allows you to set shooting functions, such as continuous shooting, self-timer, and flash.

Drive Mode	Selects the drive mode, such as continuous shooting, self-timer, or bracket shooting. (Single Shooting/Cont. Shooting/Spd Priority Cont./ Self-timer/Self-timer(Cont)/ Bracket: Cont.)
Flash Mode	Selects the method used to fire the flash. (Flash Off/Autoflash/Fill-flash/Slow Sync./Rear Sync.)
AF/MF Select	Selects auto focusing or manual focusing. (Autofocus/DMF/Manual Focus)
Autofocus Area	Selects the area to be focused on. (Multi/Center/Flexible Spot)
Autofocus Mode	Selects the autofocus method. (Single-shot AF/Continuous AF)
Tracking Focus	Keeps the focus on a subject while tracking it.
Zoom	Sets the zoom scale of the [Zoom] feature of the camera.
Face Detection	Detects people's faces automatically, and adjusts focus and exposure to suit the faces. (On (Regist. Faces)/On/Off)
Face Registration	Registers or changes the person to be given priority in the focus. (New Registration/Order Exchanging/Delete/Delete All)

Smile Shutter	Each time the camera detects a smile, the camera releases the shutter automatically. (Off/On)
Auto Object Framing	When shooting faces, close-up (macro) subjects, or subjects tracked by [Tracking Focus], the camera analyzes the scene and automatically trims the captured image into a suitable composition. When you select [Off], the camera saves only the original image. (Off/Auto)
Soft Skin Effect	Shoots the skin smoothly in [Face Detection] function. (On/Off)
Shooting Tip List	Allows you to view all shooting tips.
LCD Display (DISP)	Switches the information to be displayed on the shooting screen on the LCD screen. (Graphic Display/Display All Info./Big Font Size Disp./No Disp. Info./Histogram)
Finder Display(DISP)	Switches the information to be displayed on the shooting screen on the viewfinder. (Disp. Basic Info/Histogram)
DISP Button(Monitor)	Sets the screen display modes to be displayed on the LCD screen by pressing the DISP button. (Graphic Display/Display All Info./Big Font Size Disp./No Disp. Info./Histogram)

Image Size

Allows you to set the image size and aspect ratio, etc.

Still	
Image Size	Selects the image size. (3:2: L: 20M/ M: 10M/ S: 5.0M) (16:9: L: 17M/ M: 8.4M/ S: 4.2M)
Aspect Ratio	Selects the aspect ratio. (3:2/16:9)
Quality	Selects the compression format. (RAW & JPEG/Fine/Standard)

Panorama	
Image Size	Selects the image size when shooting panoramic images. (Standard/Wide)
Panorama Direction	Selects the direction to pan the camera when shooting panoramic images. (Right/Left/Up/Down)
Movie	
File Format	Selects AVCHD or MP4.
Record Setting	Selects the image size, frame rate, and image quality of movies. (AVCHD: 60i/50i 24M (FX) / 60i/50i 17M (FH) / 24p/25p 24M (FX) / 24p/25p 17M (FH)) (MP4: 1440×1080 12M/VGA 3M)

Brightness/Color

Allows you to make brightness settings such as metering mode, and color settings such as white balance.

Exposure Comp.	Compensates for the brightness of the entire image. (–3.0EV to +3.0EV)
ISO	Sets the ISO sensitivity. (ISO AUTO/ISO 100 - ISO 16000)
White Balance	Adjusts the color tones according to the ambient light conditions. (Auto WB/Daylight/Shade/Cloudy/Incandescent/ Fluor.: Warm White/Fluor.: Cool White/Fluor.: Day White/Fluor.: Daylight/Flash/C.Temp./Filter/Custom/ Custom Setup)
Metering Mode	Selects the method used for measuring the brightness. (Multi/Center/Spot)
Flash Comp.	Adjusts the amount of flash light. (–2.0EV to +2.0EV)
DRO/Auto HDR	Corrects the brightness or contrast automatically. (Off/D-Range Opt./Auto HDR)

Picture Effect	Shoots with the desired effects to express a unique atmosphere. (Off/Toy Camera/Pop Color/Posterization/Retro Photo/Soft High-key/Partial Color/High Contrast Mono./Soft Focus/HDR Painting/Rich-tone Mono./Miniature)
Creative Style	Selects the image processing method. (Standard/Vivid/Portrait/Landscape/Sunset/Black & White)

Playback

Allows you to set playback functions.

Delete	Deletes images. (Multiple Img./All in Folder/All AVCHD view files)
Still/Movie Select	Allows you to determine how to group the playback images (View mode). (Folder View(Still)/Folder View(MP4)/AVCHD View)
Slide Show	Plays back images automatically. (Repeat/Interval)
Specify Printing	Selects the images to print, or makes printing settings. (DPOF Setup/Date Imprint)
Image Index	Selects the number of images to be displayed on the index screen. (6 Images/12 Images)
⊕ Enlarge Image	Enlarges the image.
Rotate	Rotates images.
Protect	Protects images, or cancels the protection. (Multiple Img./Cancel All Images/Cancel All Movies(MP4)/Cancel All AVCHD view files)
Volume Settings	Sets the sound volume of movies.
Display Contents	Switches the information to be displayed on the playback screen. (Display Info./Histogram/No Disp. Info.)

Setup

Allows you to make more detailed shooting settings, or change the camera settings.

Shooting Settings	
AEL w/ shutter	Sets whether or not to fix the exposure when you press the shutter button halfway down. (On/Off)
AF Illuminator	Sets the AF illuminator to assist auto-focusing in dim places. (Auto/Off)
Red Eye Reduction	Provides pre-flash before shooting when using the flash, to prevent eyes from being shot in red. (On/Off)
Live View Display	Allows you to choose whether or not to show the value of exposure compensation, etc. on the screen display. (Setting Effect ON/Setting Effect OFF)
Auto Review	Sets the display time of the image right after shooting. (10 Sec/5 Sec/2 Sec/Off)
Grid Line	Turns on the grid line that helps you to adjust the composition of images. (Rule of 3rds Grid/Square Grid/Diag. + Square Grid/Off)
Peaking Level	Enhances the outline of in-focus ranges with a specific color. (High/Mid/Low/Off)
Peaking Color	Sets the color used for the peaking function. (White/Red/Yellow)
Clear Image Zoom	Provides a higher-quality zoomed image than with [Digital Zoom]. (On/Off)
Digital Zoom	Provides zoomed images at higher magnification than with [Clear Image Zoom]. This feature can be also available in movie recording. (On/Off)
S. Auto Image Extract.	Sets whether or not to save all the images that were shot continuously in [Superior Auto] mode. (Auto/Off)
MF Assist	Displays an enlarged image when focusing manually. (On/Off)

MF Assist Time	Sets the length of time the image will be shown in an enlarged form. (No Limit/5 Sec/2 Sec)
Color Space	Changes the range of color reproduction. (sRGB/AdobeRGB)
SteadyShot	Sets camera-shake compensation. (On/Off)
Release w/o Lens	Sets whether or not to release the shutter when there is no lens. (Enable/Disable)
High ISO NR	Sets the noise reduction processing for high ISO sensitivity shootings. (Normal/Low)
Lens Comp.: Shading	Compensates for the shaded corners of the screen. (Auto/Off)
Lens Comp.: Chro. Aber.	Reduces the color deviation at the corners of the screen. (Auto/Off)
Lens Comp.: Distortion	Compensates for distortion on the screen. (Auto/Off)
Face Priority Tracking	Sets whether to give priority to tracking a certain face when the camera detects that face during tracking focus. (On/Off)
Movie Audio Rec	Sets whether or not to record sound when recording a movie. (On/Off)
Wind Noise Reduct.	Reduces wind noise during movie recording. (On/Off)
AF Micro Adj.	Finely adjusts the autofocused position, when using the LA-EA2 Mount Adaptor (sold separately). (AF Adjustment Setting/amount/Clear)

Main Settings	
Menu start	Selects a first-displayed menu from the top menu or the last menu screen. (Top/Previous)
MOVIE Button	Sets whether or not to activate the MOVIE button. (On/Off)
Custom Key Settings	Assigns functions to the soft keys or the right side of the control wheel. (Soft key B Setting/Right Key Setting/Custom)
Beep	Selects the sound produced when you operate the camera. (On/Off)
Language	Selects the language used on the screen.
Date/Time Setup	Sets the date and time.
Area Setting	Selects the area where you are using the camera.
Help Guide Display	Turns the Help Guide on or off. (On/Off)
Power Save	Sets the level of the power saving feature. (Max/Standard)
Power Saving Start Time	Sets the time to turn the camera to the power save mode. (30 Min/5 Min/1 Min/20 Sec/10 Sec)
LCD Brightness	Sets the brightness of the LCD screen. (Manual/Sunny Weather)
Viewfinder Bright.	Sets the brightness of an Electronic Viewfinder. (Auto/Manual)
Display Color	Selects the color of the LCD screen. (Black/White/Blue/Pink)
Wide Image	Selects a method to display wide images. (Full Screen/Normal)
Playback Display	Selects the method used to play back portrait images. (Auto Rotate/Manual Rotate)
USB Connection	Selects the appropriate USB connection method for each computer or USB device connected to the camera. (Auto/Mass Storage/MTP)

USB LUN Setting	Enhances compatibility by limiting the functions of USB connection. Normally, use [Multi], and if you cannot make a connection, set it to [Single]. (Multi/Single)
Version	Displays the camera and lens versions.
Demo Mode	Sets whether or not to display the demonstration with movies. (On/Off)
Initialize	Resets the camera to the default settings. (Reset Default/Factory Reset)
Memory Card Tool	
Format	Formats the memory card.
File Number	Selects the method to use to assign file numbers to still images and MP4 movies. (Series/Reset)
Folder Name	Selects the folder name format in which the still image is stored. (Standard Form/Date Form)
Select Shoot. Folder	Selects the recording folder to which still images and MP4 movies are recorded.
New Folder	Creates a new folder to which still images and MP4 movies are recorded.
Recover Image DB	Repairs the image database file when inconsistencies are found.
Display Card Space	Displays the remaining recording time of movies and the recordable number of still images on the memory card.
Eye-Fi Setup*	
Upload Settings	Sets whether to use the upload function of the camera with an Eye-Fi card. (On/Off)

* This setting appears when an Eye-Fi card (sold separately) is inserted in the camera.
Do not use an Eye-Fi card inserted in the camera on an airplane. If an Eye-Fi card is inserted in the camera, set [Upload Settings] to [Off].
Eye-Fi cards can be used only in the countries/regions where they were purchased. Use Eye-Fi cards in accordance with the law of the countries/regions where you purchased the card.

Functions available for each shooting mode

The functions you can use depend on the selected shooting mode.
In the table below, ✓ indicates the function is available, and a – indicates the function is not available.
The functions you cannot use are displayed in gray on the screen.

Shoot Mode		Exposure Comp.	Self-timer	Cont. Shooting	Face Detection	Picture Effect
(Intelligent Auto)		–	✓	✓	✓	–
SCN (Scene Selection)		–	✓	–	✓	–
		–	✓	–	✓	–
		–	✓	–	✓	–
		–	✓	✓	✓	–
		–	✓	–	✓	–
		–	✓	–	✓	–
		–	✓	–	✓	–
		–	–	–	✓	–
		–	–	–	✓	–
(Sweep Panorama)		✓	–	–	–	–
M (Manual Exposure)		–	✓	✓	✓	✓
S (Shutter Priority)		✓	✓	✓	✓	✓
A (Aperture Priority)		✓	✓	✓	✓	✓
P (Program Auto)		✓	✓	✓	✓	✓
(Superior Auto)		–	✓	✓	✓	–

Notes

- The functions available may be limited also by conditions other than the shooting mode.

Flash modes available

The flash modes you can select depend on the shooting mode and functions selected.
In the table below, ✓ indicates the function is available, and a – indicates the function is not available.
The flash modes you cannot select are displayed in gray on the screen.

Shoot Mode		Flash Off	Autoflash	Fill-flash	Slow Sync.	Rear Sync.
(Intelligent Auto)		✓	✓	✓	–	–
SCN (Scene Selection)		✓	✓	✓	–	–
		✓	–	✓	–	–
		✓	✓	✓	–	–
		✓	–	✓	–	–
		✓	–	✓	–	–
		–	✓*	–	–	–
		✓	–	–	–	–
		✓	–	–	–	–
		✓	–	–	–	–
(Sweep Panorama)		✓	–	–	–	–
M (Manual Exposure)		–	–	✓	✓	✓
S (Shutter Priority)		–	–	✓	✓	✓
A (Aperture Priority)		–	–	✓	✓	✓
P (Program Auto)		–	–	✓	✓	✓
(Superior Auto)		✓	✓	✓	–	–

* The camera emits flash light in slow synchro mode if the flash is necessary.

Notes

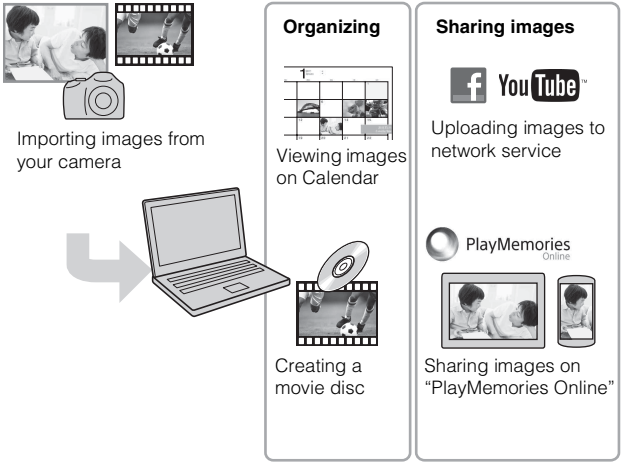
- The flash modes may be limited also by conditions other than the shooting mode.
- Even if you select a workable flash mode, the flash does not fire unless it is raised.

What you can do with software

To utilize images recorded with the camera, use the following software:

- “PlayMemories Home” (Windows only)
  You can import still images or movies recorded with the camera to your computer so that you can view them, and use various convenient features to enhance the images you have shot. “PlayMemories Home” is required when importing AVCHD movies to your computer.
- “Image Data Converter”
  You can retouch RAW format images and convert them into JPEG/TIFF format.

What you can do with “PlayMemories Home”



Installing “PlayMemories Home” (for Windows only)

You can install “PlayMemories Home” from the following URL (page 62):
www.sony.net/pm

Notes

- An Internet connection is required to install “PlayMemories Home.”
- An Internet connection is required to use “PlayMemories Online” or other network services. “PlayMemories Online” or other network services may not be available in some countries or regions.
- “PlayMemories Home” is not compatible with Macs. Use the applications that are installed on your Mac. For details, visit the following URL: http://www.sony.co.jp/imsoft/Mac/

What you can do with “Image Data Converter”

With “Image Data Converter,” you can do the following:

- You can play back and edit images recorded in RAW format with various corrections, such as tone curve and sharpness.
- You can adjust images with white balance, exposure, and [Creative Style], etc.
- You can save the images displayed and edited on a computer. You can either save the image as RAW format or save it in the general file format (JPEG/TIFF).
- You can display and compare the RAW images and JPEG images recorded by this camera.
- You can rank images in 5 grades.
- You can apply color labels, etc.

Installing “Image Data Converter” (Windows/Mac)

You can install “Image Data Converter” from the following URL (page 64):
http://www.sony.co.jp/ids-se/

Notes

- An Internet connection is required to install “Image Data Converter.”

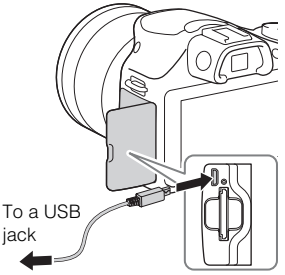
Installing the software

Installing “PlayMemories Home”

- If the software “PMB (Picture Motion Browser),” supplied with models released before 2011, has already been installed on your computer, “PlayMemories Home” will overwrite it and will be installed. Although some “PlayMemories Home” functions differ from those of “PMB,” use “PlayMemories Home.”

1 Using the Internet browser on your computer, go to the following URL, then click [Install] → [Run].
www.sony.net/pm

2 Follow the instructions on the screen to complete the installation.
- When the message to connect the camera to a computer is displayed, connect the camera and computer using the micro USB cable (supplied).



Viewing “PlayMemories Home Help Guide”

For details on how to use “PlayMemories Home,” refer to the “PlayMemories Home Help Guide.”

1 Double-click the [PlayMemories Home Help Guide] icon on the desktop.

- To access the “PlayMemories Home Help Guide” from the start menu: [Start] → [All Programs] → [PlayMemories Home] → [PlayMemories Home Help Guide]
- For Windows 8, select the [PlayMemories Home] icon on the Start screen, then launch “PlayMemories Home” and select [PlayMemories Home Help Guide] from the [Help] menu.
- For details on “PlayMemories Home,” you can also see the “α Handbook” (page 72) or the following PlayMemories Home support page (English only):
  http://www.sony.co.jp/pmh-se/

Installing “Image Data Converter”

1 Using the Internet browser on your computer, go to the following URL.

For Windows: http://www.sony.co.jp/imsoft/Win/
For Mac: http://www.sony.co.jp/imsoft/Mac/

2 Follow the instruction on the screen to complete the installation.

Viewing “Image Data Converter Guide”

For details on how to use “Image Data Converter,” refer to the “Image Data Converter Guide.”

1 For Windows:
[Start] → [All Programs] → [Image Data Converter] → [Help]→ [Image Data Converter Ver.4]
For Mac:
Finder → [Applications] → [Image Data Converter] → [Image Data Converter Ver.4] → “Help” in the menu bar → “Image Data Converter Guide”

- For Windows 8, start “Image Data Converter Ver.4” → “Help” in the menu bar → “Image Data Converter Guide.”
- For details on “Image Data Converter,” you can also see the following “Image Data Converter” support page (English only):
http://www.sony.co.jp/ids-se/

Checking the number of recordable images

Once you insert a memory card into the camera and set the power switch to ON, the number of images that can be recorded (should you continue to shoot using the current settings) is displayed on the LCD screen.

Notes

- When “0” (the number of recordable images) flashes in yellow, the memory card is full. Replace the memory card with another one, or delete images in the current memory card (page 30).
- When “NO CARD” (the number of recordable images) flashes in yellow, it means no memory card has been inserted. Insert a memory card.

Number of still images and time of movies recordable on a memory card

Still images

The following table shows the approximate number of still images that can be recorded on a memory card formatted with this camera. The values are defined using Sony standard memory cards for testing. The values may vary depending on the shooting conditions.

Image Size: L 20M
Aspect Ratio: 3:2*

(Units: images)

Quality \ Capacity	2GB	4GB	8GB	16GB	32GB	64GB
Standard	385	780	1550	3150	6300	12500
Fine	240	485	980	1950	3900	7800
RAW & JPEG	65	125	260	520	1050	2100

* When [Aspect Ratio] is set to [16:9], you can record more images than the numbers shown in the table above.

Movies

The following table shows the approximate recording times available. These are the total times for all movie files.

(h (hour), m (minute))

Record Setting \ Capacity	2GB	4GB	8GB	16GB	32GB	64GB
60i 24M(FX) 50i 24M(FX)	10 m	20 m	40 m	1 h 30 m	3 h	6 h
60i 17M(FH) 50i 17M(FH)	10 m	30 m	1 h	2 h	4 h 5 m	8 h 15 m
24p 24M(FX) 25p 24M(FX)	10 m	20 m	40 m	1 h 30 m	3 h	6 h
24p 17M(FH) 25p 17M(FH)	10 m	30 m	1 h	2 h	4 h 5 m	8 h 15 m
1440×1080 12M	20 m	40 m	1 h 20 m	2 h 45 m	5 h 30 m	11 h 5 m
VGA 3M	1 h 10 m	2 h 25 m	4 h 55 m	10 h	20 h 5 m	40 h 15 m

Notes

- The recording time of movies varies because the camera uses VBR (Variable Bit Rate), an encoding method that automatically adjusts image quality according to the shooting situation.
  When you record a fast-moving subject, the image is clearer but the recording time is shorter because much memory is used.
  The recording time also vary depending on the shooting condition or your subject or the setting of image quality/size.
- The duration of time available for movie recording varies with the temperature or condition of the camera before you start recording. If you frequently recompose or shoot still images after the power is turned on, the temperature inside the camera rises and the recording time available will be shorter.
- If the camera stops movie recording due to the temperature, leave the camera for several minutes with the power turned off. Restart recording after the temperature inside the camera goes down.
- If you observe the following points, the recording time is longer.
  – Keep the camera out of direct sunlight.
  – Turn the camera off when it is not being used.
- The maximum size of a movie file is about 2 GB. When the file size is about 2 GB, the movie recording stops automatically when [File Format] is set to [MP4], and a new movie file is created automatically when [File Format] is set to [AVCHD].
- The continuous recording time of MP4 12M is approximately 20 minutes (limited by 2 GB file size).

Continuous movie recording

The values below are the time from when the camera starts recording until the camera stops recording. The continuous recording time for movies depends on the ambient temperature or camera usage status before recording movies.

Ambient temperature	Continuous recording time for movies
20 °C (68 °F)	Approx. 29 minutes
30 °C (86 °F)	Approx. 29 minutes
40 °C (104 °F)	Approx. 18 minutes

Recordable time and number of recordable shooting/ playback images on a single charge of the battery pack

		Recordable time	Number of images
Shooting (Still images)	LCD screen	Approx. 235 min.	Approx. 470 images
	Viewfinder	Approx. 230 min.	Approx. 460 images
Actual shooting (movies)	LCD screen	Approx. 80 min.	–
	Viewfinder	Approx. 80 min.	–
Continuous shooting (movies)	LCD screen	Approx. 150 min.	–
	Viewfinder	Approx. 150 min.	–
Playback (Still images)		Approx. 430 min.	Approx. 8600 images

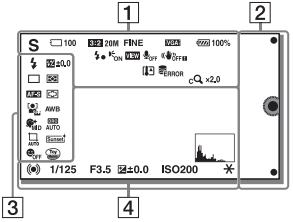
- The table above shows the approximate recordable time or number of images when using a fully charged battery pack. Note that the actual numbers may vary depending on the conditions of use.
- The recordable time and the number of recordable images are calculated when using a fully charged battery pack under the following conditions:
  – At an ambient temperature of 25 °C (77 °F).
  – When an E 18-55 mm F3.5-5.6 OSS lens is attached.
  – Using Sony “Memory Stick PRO Duo” media (sold separately).
  – [LCD Brightness]: [Manual] [±0]
- The number of still images is based on the CIPA standard under the following conditions. (CIPA: Camera & Imaging Products Association)
  – [Autofocus Mode] is set to [Single-shot AF].
  – Shooting once every 30 seconds.
  – The flash strobes once every two shots.
  – The power is turned on and off once every ten shots.

- The movie recordable time is based on the CIPA standard under the following conditions.
  – Movie quality: AVCHD FH
  – “Actual shooting (movies)”: Indicates the approximate shooting time as a guideline when you repeatedly perform shooting, zooming, standby for shooting, and turning on and off the camera.
  – “Continuous shooting (movies)”: When continuous shooting ends because of set limits (29 minutes), press the MOVIE button again to continue shooting. No other operations such as zoom are performed.

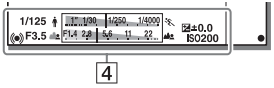
List of icons on the LCD screen

Icons are displayed on the screen to indicate the camera status.
You can change the screen display using DISP (Display Contents) on the control wheel.

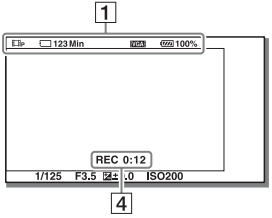
Shooting standby



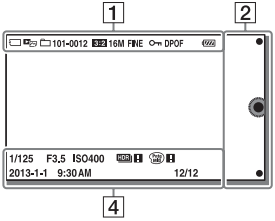
Graphic display



Movie recording



Playback



1

Display	Indication
P A S M	Shoot Mode
	Scene Selection
	Scene Recognition icon
OFF	Memory card/ Upload
100	Number of recordable still images
123Min	Recordable time of movies
3:2 **16:9**	Aspect ratio of still images
20M 17M 10M 8.4M 5.0M 4.2M WIDE STD	Image size of still images

Display	Indication
RAW+J FINE STD	Image quality of still images
60i/50i FX 60i/50i FH 24p/25p FX 24p/25p FH 1080 VGA	Recording mode of movies
100%	Remaining battery
	Flash charge in progress
ON	AF illuminator
VIEW	Live view
OFF	Does not record sound during movie recording
	Wind noise reduction is activated
OFF OFF ON ON	SteadyShot/ SteadyShot warning
	Overheating warning
FULL ERROR	Database file full/ Database file error
W T	Zoom magnification
S ×2.0	Smart Zoom
C ×2.0	Clear Image Zoom

Display	Indication
D ×2.0	Digital Zoom
MP4 AVCHD	View mode (Still/ Movie Select)
101-0012	Playback folder – File number
	Protect
DPOF	Print order

2

Display	Indication
	Soft keys

3

Display	Indication
AUTO SLOW REAR	Flash Mode/Red Eye Reduction
±0.0	Flash compensation
10 2 C3 C5	Drive Mode
	Metering Mode
DMF AF-S AF-C MF	Focus mode
	Focus area mode

Display	Indication
	Face Detection
AWB 7500K A7 G7	White Balance
	Soft Skin Effect
OFF AUTO AUTO	DRO/Auto HDR
AUTO OFF	Auto Object Framing
Std. Vivid Port. Land. Sunset B/W	Creative Style
	Smile Shutter
	Picture Effect
	Smile detection sensitivity indicator

4

Display	Indication
	Focus status
1/125	Shutter speed
F3.5	Aperture value
M ±0.0	Metered manual
±0.0	Exposure compensation
ISO200	ISO sensitivity
	AE lock
	Shutter speed indicator
	Aperture indicator
REC 0:12	Recording time of the movie (m:s)
2013-1-1 9:30AM	Recorded date/time of the image
12/12	Image number/ Number of images in the view mode
HDR !	Appears when HDR did not work on the image.
! !	Appears when [Picture Effect] did not work on the image.
	Histogram

Learning more about the camera (α Handbook)

The "α Handbook" can be downloaded from the Internet. Refer to the "α Handbook" for in-depth instructions on the many camera functions.

1 Access the Sony support page.
http://www.sony.net/SonyInfo/Support/

2 Select your country or region.

3 Search for the model name of your camera within the support page.
- Check the model name on the bottom of your camera.

Troubleshooting

If you experience trouble with the camera, try the following solutions.

❶ Check the items on pages 73 to 77. Also refer to "α Handbook" (PDF).

❷ Remove the battery pack, wait for about one minute, re-insert the battery pack, and then turn on the power.

❸ Reset the settings (page 57).

❹ Consult your Sony dealer or local authorized Sony service facility.

Battery pack and power

The battery pack cannot be installed.

- When you insert the battery pack, use the tip of the battery pack to push the lock lever (page 13).
- You can use an NP-FW50 battery pack only. Make sure that the battery is NP-FW50.

The remaining battery level indicator shows incorrect level or power runs out quickly despite the indicator showing sufficient battery level.

- This phenomenon occurs when you use the camera in an extremely hot or cold location.
- The battery pack is discharged. Install a charged battery pack (page 13).
- The battery pack is dead. Replace the battery pack with a new one.

Cannot turn the camera on.

- Install the battery pack correctly (page 13).
- The battery pack is discharged. Install a charged battery pack (page 13).
- The battery pack is dead. Replace the battery pack with a new one.
- The screen display is set to the viewfinder. Press the FINDER/LCD button to switch the display to the LCD screen.

The power turns off suddenly.

- When the camera or battery pack is too hot, the camera displays a warning message and turns off automatically to protect the camera.
- If you do not operate the camera for given period of time, the camera turns to power saving mode. To cancel the power save, operate the camera by means such as pressing the shutter button halfway down.

The charge lamp on the camera flashes when charging the battery pack.

- You can only use an NP-FW50 battery pack. Make sure that the battery is NP-FW50.
- If you charge a battery pack that has not been used for a long time, the charge lamp may flash.
- The charge lamp flashes in two ways, fast (about 0.3-second intervals) or slow (about 1.3-second intervals). If the charge lamp is flashing fast, remove the battery pack and reattach the same battery pack securely, or disconnect and reconnect the USB cable. If the charge lamp flashes fast again, it suggests that there is something wrong with the battery pack or USB cable. Slow flashing indicates that charging is suspended because the ambient temperature is outside the suitable range for charging the battery pack. Charging will resume and the charge lamp will be lit when the ambient temperature returns to within the suitable temperature. The optimal temperature for charging the battery pack is between 10 °C and 30 °C (50 °F and 86 °F).

The battery has not been charged even if the charge lamp has turned off.

- This phenomenon occurs when you use the camera in an extremely hot or cold location. The optimal temperature for charging the battery pack is between 10 °C and 30 °C (50 °F and 86 °F).

The battery pack is not charged.

- When the battery pack is not charged (the charge lamp does not light) even if you follow the proper charging procedure, remove the battery pack and re-insert the same battery pack securely, or disconnect and reconnect the USB cable.

Shooting images

Nothing is displayed on the LCD screen when the power is turned on.

- If you do not operate the camera for given period of time, the camera turns to power saving mode. To cancel the power save, operate the camera, such as pressing the shutter button halfway down.
- The screen display is set to the viewfinder. Press the FINDER/LCD button to switch the display to the LCD screen.

The shutter does not release.

- You are using a memory card with a write-protect switch, and the switch is set to the LOCK position. Set the switch to the recording position.
- Check the free capacity of the memory card.
- You cannot record images while charging the flash.
- The lens is not attached properly. Attach the lens properly (page 18).

Recording takes a long time.

- The noise reduction function is turned on. This is not a malfunction.
- You are shooting in the RAW mode. Since the RAW data file is large, the RAW mode shooting may take time.
- The [Auto HDR] is processing an image.

The image is out of focus.

- The subject is too close. Check the minimum focal distance of the lens.
- You are shooting in manual focus mode. Set [AF/MF Select] to [Autofocus].
- Ambient light is insufficient.
- The subject may require special focusing. Use the [Flexible Spot] or manual focus function.

The flash does not work.

- Press the ⚡ (Flash pop-up) button to pop up the flash (page 47).
- You cannot use a flash with the following shooting mode:
  - [Bracket: Cont.]
  - [Sweep Panorama]
  - [Night Scene], [Hand-held Twilight] and [Anti Motion Blur] in [Scene Selection]
  - Movie recording

Fuzzy white circular spots appear on images shot using the flash.

- Particles (dust, pollen, etc.) in the air reflected the flash light and appeared on the image. This is not a malfunction.

The flash takes too long to recharge.

- The flash has been fired in succession in a short period. When the flash has been fired in succession, the recharging process may take longer than usual to avoid overheating of the flash.

The image taken with the flash is too dark.

- If the subject is beyond the flash range (the distance that the flash can reach), the pictures will be dark because the flash light does not reach the subject. If the ISO is changed, the flash range also changes with it (page 48).

The date and time are recorded incorrectly.

- Set the correct date and time (page 23).
- The area selected with [Area Setting] is different from the actual area. Set the actual area by selecting MENU → [Setup] → [Area Setting].

The aperture value and/or shutter speed flashes.

- The subject is too bright or too dark, and the camera's available range for the aperture value and/or shutter speed is exceeded. Adjust the setting again.

The image is whitish (Flare).

Blurring of light appears on the image (Ghosting).

- The picture was taken under backlit conditions, and excessive light has entered the lens. When using the zoom lens, attach a lens hood.

The corners of the picture are too dark.

- If any filter or hood is used, take it off and try shooting again. Depending on the thickness of the filter and improper attachment of the hood, the filter or the hood may partially appear on the image. The optical properties of some lenses may cause the periphery of the image to appear too dark (insufficient light). You may compensate for this phenomenon with [Lens Comp.: Shading].

The eyes of the subject come out red.

- Activate the [Red Eye Reduction] function.
- Get close to the subject, and shoot the subject within the flash range (page 48) using the flash.

Dots appear and remain on the LCD screen.

- This is not a malfunction. These dots are not recorded (page 78).

The image is blurred.

- The picture was taken in a dark location without the flash, resulting in camera-shake. The use of a tripod or the flash is recommended (page 47). [Hand-held Twilight] and [Anti Motion Blur] in [Scene Selection] (page 43) are also effective in reducing blur.

The exposure value is flashing on the LCD screen or the viewfinder.

- The subject is too bright or too dark for the metering range of the camera.

Viewing images

Images cannot be played back.

- The folder/file name has been changed on your computer.
- When an image file has been processed by a computer or when the image file was recorded using a model other than that of your camera, playback on your camera is not guaranteed.
- The camera is in USB mode. Disconnect the camera from the computer.
- Use “PlayMemories Home” to copy images stored on your computer to your camera to play them back on your camera.

Precautions

On the functions available with the camera

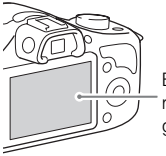
Your camera is 1080 60i-compatible or 1080 50i-compatible.
To check whether the camera is 1080 60i-compatible or 1080 50i-compatible, check for the following marks on the bottom of the camera.
1080 60i-compatible camera: 60i
1080 50i-compatible camera: 50i

Creating an image database file

If you insert a memory card that does not contain an image database file into the camera and turn on the power, the camera automatically creates an image database file using some of the memory card's capacity. The process may take a long time and you cannot operate the camera until the process is completed.
If a database file error occurs, export all images to your computer using "PlayMemories Home," and then format the memory card using the camera.

On the LCD screen and lens

- The LCD screen is manufactured using extremely high-precision technology so over 99.99 % of the pixels are operational for effective use. However, there may be some tiny black points and/or bright points (white, red, blue or green in color) that constantly appear on the LCD screen. These points are normal in the manufacturing process and do not affect the images in any way.



- Images may trail across on the LCD screen in a cold location. This is not a malfunction. When turning on the camera in a cold location, the LCD screen may become temporarily dark.
- Do not press against the LCD screen. The monitor may be discolored and that may cause a malfunction.
- Do not expose the camera to direct sunlight. If reflected sunlight is focused on a nearby object, it may cause a fire. When you must place the camera under direct sunlight, attach the front lens cap.

On using the lenses and accessories

It is recommended that you use Sony lenses/accessories designed to suit the characteristics of this camera. Using the products of other manufacturers may cause the camera not to operate to its capability, or result in accidents and malfunctions of the camera.

Do not use/store the camera in the following places

- In an extremely hot, dry or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near strong magnetic place
- In sandy or dusty places
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On storing

Be sure to attach the front lens cap when not using the camera.

Care

The surface of the LCD screen has a coating that may peel off if scratched.
Please note the following points for handling and care.

- Grease or hand cream left on the LCD screen by your hands may dissolve the coating. If any grease or cream gets on the LCD screen, wipe it off immediately.
- Wiping forcefully with tissue paper or other materials may damage the coating.
- Before wiping dirt, dust the dirt or sand off in advance using a blower, etc.
- When wiping off dirt, wipe gently with a soft cloth, such as a cloth for cleaning glasses.

On the temperature of the camera

Your camera and battery may get hot due to continuous use, but it is not a malfunction.

On operating temperatures

Your camera is designed for use under the temperatures between 0 °C and 40 °C (32 °F and 104 °F). Shooting in extremely cold or hot places that exceed this range is not recommended.

On moisture condensation

If the camera is brought directly from a cold to a warm location, moisture may condense inside or outside the camera. This moisture condensation may cause a malfunction of the camera.

How to prevent moisture condensation

When bringing the camera from a cold place to a warm place, seal the camera in a plastic bag and allow it to adapt to conditions at the new location over about an hour.

If moisture condensation occurs

Turn off the camera and wait about an hour for the moisture to evaporate. Note that if you attempt to shoot with moisture remaining inside the lens, you will be unable to record clear images.

On the internal rechargeable battery

This camera has an internal rechargeable battery for maintaining the date and time and other settings regardless of whether the power is on or off, or the battery is installed or not. This rechargeable battery is continually charged as long as you are using the camera. However, if you use the camera for only short periods, it gradually discharges. If you do not use the camera at all for about three months it becomes completely discharged. In this case, be sure to charge this rechargeable battery before using the camera. However, even if this rechargeable battery is not charged, you can still use the camera as long as you do not record the date and time. If the camera resets to the default settings each time you charge the battery pack, the internal rechargeable battery may be dead. Consult your Sony dealer or local authorized Sony service facility.

Charging method of the internal rechargeable battery

Insert a charged battery pack into the camera, or turn off the camera and charge the battery pack (supplied) for 24 hours or more (page 13).

On memory cards

Do not attach a label, etc. on a memory card or a card adaptor. This may cause a malfunction.

Notes on disposal or transfer of the camera

For the protection of personal information, perform the following operations when you dispose of or transfer the camera.

- [Initialize] → [Factory Reset] (page 57)

On recording/playback

- When you use a memory card with this camera for the first time, it is recommended to format the card using the camera for stable performance of the memory card before shooting. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.
- If you repeatedly record/delete images, fragmentation of data may occur on the memory card. Movies may not be able to be saved or recorded. In such a case, save your images to a computer or other storage location, and then format the memory card (page 57).
- The recorded contents cannot be compensated for even if recording or playback is not possible due to a malfunction of the camera or memory card, etc.
- To avoid the potential risk of data loss, always copy (back up) data to other media.
- Before you record one-time events, make a trial recording to make sure that the camera is working correctly.
- This camera is neither dust-proof, nor splash-proof, nor water-proof.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- Do not look at the sun or a strong light through a removed lens. This may cause irrecoverable damage to your eyes. Or it may cause a malfunction of the lens.
- Do not use the camera near a place that generates strong radio waves or emits radiation. The camera may not be able to record or play back properly.
- Using the camera in sandy or dusty place may cause malfunctions.
- If moisture condensation occurs, remove it before using the camera (page 80).
- Do not shake or strike the camera. In addition to malfunctions and an inability to record images, this may render the memory card unusable, or cause image data breakdown, damage or loss.
- Clean the flash surface with a soft cloth. The heat of flash emission may cause dirt to adhere on the flash surface, resulting in smoking or scorching.
- Keep the camera, supplied accessories, etc., out of the reach of children. A memory card, etc., may be swallowed. If such problem occurs, consult a doctor immediately.

Importing AVCHD movies to a computer

When importing AVCHD movies to a computer, for Windows, use the software “PlayMemories Home.”

On RAW images

To view RAW images recorded with the camera, “Image Data Converter” is required. If you do not intend to modify the images you record, we recommend that you shoot images using the JPEG format.

Notes on playing movies on other devices

- This camera uses MPEG-4 AVC/H.264 High Profile for AVCHD format recording. Movies recorded in AVCHD format with this camera cannot be played by the following devices.
  - Other devices compatible with AVCHD format that does not support High Profile
  - Devices incompatible with the AVCHD format
- This camera also uses MPEG-4 AVC/H.264 Main Profile for MP4 format recording. For this reason, play back movies recorded in MP4 format with this camera on MPEG-4 AVC/H.264 supported devices.
- Discs recorded with HD (high definition) image quality can be played back only on AVCHD format-compatible devices. DVD-based players or recorders cannot play back HD image quality discs, as they are incompatible with the AVCHD format. Also, DVD-based players or recorders may fail to eject HD image quality discs.

Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted. Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

The pictures used in this manual

The photographs used as examples of pictures in this manual are reproduced images, and are not actual images shot using this camera.

On the data specifications described in this manual

The data on performance and specifications are defined under the following conditions, except as described in this manual: at an ordinary ambient temperature of 25 ºC (77 °F), and using a battery pack that has been fully charged for about an hour after the charge lamp has turned off.

On image data compatibility

- This camera conforms with DCF (Design rule for Camera File system) universal standard established by JEITA (Japan Electronics and Information Technology Industries Association).
- Playback of images recorded with your camera on other equipment and playback of images recorded or edited with other equipment on your camera are not guaranteed.

Specifications

Camera

[System]

Camera type: Interchangeable lens digital camera
Lens: E-mount lens

[Image sensor]

Image sensor: APS-C format (23.5 mm × 15.4 mm) CMOS image sensor
Total pixel number of image sensor: Approx. 20 400 000 pixels
Effective pixel number of camera: Approx. 20 100 000 pixels

[Auto focus system]

System: Contrast detection system
Sensitivity range: EV0 to EV20 (at ISO 100 conversion, with F2.8 lens)

[Exposure control]

Metering method: 1 200-segment metering by the image sensor
Metering range: EV0 to EV20 (at ISO 100 conversion, with F2.8 lens)
ISO sensitivity (Recommended exposure index):
Still images: AUTO, ISO 100 – ISO 16000
Movies: AUTO, ISO 100 – ISO 3200 equivalent
Exposure compensation: ±3.0 EV (1/3 EV step)

[Shutter]

Type: Electronically-controlled, vertical-traverse, focal-plane type
Speed range:
Still images: 1/4 000 second to 30 seconds, BULB
Movies: 1/4 000 second to 1/4 second (1/3 EV step), 1080 60i-compatible device up to 1/30 second in AUTO mode
1080 50i-compatible device up to 1/25 second in AUTO mode
Flash sync speed: 1/160 second

[Recording media]

"Memory Stick XC Duo" media, "Memory Stick PRO Duo" media, SD card

[Electronic viewfinder]

Type: Electronic viewfinder
Screen size: 0.5 cm (0.20 type)
Total number of dots: 201 600 dots equivalent
Frame coverage: 100%
Magnification: 0.70 × with 50 mm lens at infinity, $-1\ m^{-1}$ (diopter)
Eye point: Approx. 21 mm from the eyepiece, 15 mm from the eyepiece frame at $-1\ m^{-1}$ (diopter)
Diopter adjustment: $-4.0\ m^{-1}$ to $+3.5\ m^{-1}$ (diopter)

[LCD screen]

LCD panel: Wide, 7.5 cm (3.0 type) TFT drive
Total number of dots: 230 400 dots

[Input/output terminals]

Multi/Micro USB Terminal*:
USB communication
*Supports Micro USB compatible device.

[Power]

Battery type: Rechargeable battery pack NP-FW50

[Power consumption]

When using an E 18-55 mm F3.5-5.6 OSS lens
When using the viewfinder: Approx. 1.9 W
When using an LCD screen: Approx. 2.0 W

[Others]

Exif Print: Compatible
PRINT Image Matching III: Compatible
DPOF: Compatible
Dimensions (CIPA compliant) (Approx.):
128.0 mm × 90.9 mm × 84.5 mm (5 1/8 inches × 3 5/8 inches × 3 3/8 inches) (W/H/D)
Mass (CIPA compliant) (Approx.):
411 g (14.5 oz) (including battery and "Memory Stick PRO Duo" media)
353 g (12.5 oz) (camera only)
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)

File format:
Still image: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, RAW (Sony ARW 2.3 Format)
Movie (AVCHD format): AVCHD format Ver. 2.0 compatible
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch
Dolby Digital Stereo Creator
• Manufactured under license from Dolby Laboratories.
Movie (MP4 format):
Video: MPEG-4 AVC/H.264
Audio: MPEG-4 AAC-LC 2ch
USB communication:
Hi-Speed USB (USB 2.0)

[Flash]

Flash guide number:
4 (in meters at ISO 100)
Recycling time: Approx. 4 seconds
Flash coverage: Covering 16 mm lens (focal length that the lens indicates)
Flash compensation:
±2.0 EV (1/3 EV step)

Rechargeable battery pack NP-FW50

Battery type: Lithium-ion battery
Maximum voltage: DC 8.4 V
Nominal voltage: DC 7.2 V
Maximum charge voltage: DC 8.4 V
Maximum charge current: 1.02 A
Capacity: Typical 7.7 Wh (1 080 mAh)
Minimum 7.3 Wh (1 020 mAh)
Maximum dimensions (Approx.):
31.8 mm × 18.5 mm × 45 mm (1 5/16 inches × 3/4 inches × 1 13/16 inches) (W/H/D)
Mass (Approx.): 57 g (2.1 oz)

Lens

Lens	E18 – 55 mm zoom lens
Equivalent 35 mm-format focal length[1)] (mm)	27 – 82.5
Lens groups–elements	9 – 11
Angle of view[1)]	76° – 29°
Minimum focus[2)] (m (feet))	0.25 (0.82)
Maximum magnification (×)	0.3
Minimum aperture	f/22 – f/32
Filter diameter (mm)	49
Dimensions (max. diameter × height) (Approx. mm (in.))	62.0 × 60.0 (2 1/2 × 2 3/8)
Mass (Approx. g (oz.))	194 (6.8)
SteadyShot	Available

1) The values for equivalent 35 mm-format focal length and angle of view are based on digital cameras equipped with an APS-C sized image sensor.

2) Minimum focus is the shortest distance from the image sensor to the subject.

Design and specifications are subject to change without notice.

On focal length

The picture angle of this camera is narrower than that of a 35 mm-format camera. You can find the approximate equivalent of the focal length of a 35 mm-format camera, and shoot with the same picture angle, by increasing the focal length of your lens by half.

For example, by using a 50 mm lens, you can get the approximate equivalent of a 75 mm lens of a 35 mm-format camera.

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- Add further enjoyment with your PlayStation 3 by downloading the application for PlayStation 3 from PlayStation Store (where available).
- The application for PlayStation 3 requires PlayStation Network account and application download. Accessible in areas where the PlayStation Store is available.

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Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

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